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1 [System architecture for billing of multi-player games in a wireless environment using GSM/UMTS and WLAN services](#)



Frank Fitzek, Gerrit Schulte, Martin Reisslein

April 2002 NetGames '02: Proceedings of the 1st workshop on Network and system support for games

Publisher: ACM

Full text available: [pdf\(147.81 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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Games played by multiple users, each using a wireless terminal (e.g., PDA), have tremendous revenue potential for next generation wireless systems. However, the next generation of wireless systems (such as UMTS and other 3G systems) alone will not be ...

Keywords: HOTSPOT, UMTS, WLAN, ad-hoc, authentication, billing, business case, gaming, multi-player games

2 Network selection and discovery of service information in public WLAN hotspots



Yui-Wah Lee

October 2004 WMASH '04: Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available: [pdf\(276.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

In a public WLAN hotspot, a roaming mobile terminal (MT) may be within radio range of more than one access point (AP), each of which may or may not have roaming agreements with the service provider of the user of the MT. In this case, the MT may need ...

Keywords: Wi-Fi, discovery of service information, network selection, public WLAN hotspots, roaming

3 Secure authentication system for public WLAN roaming



Yasuhiko Matsunaga, Ana Sanz Merino, Takashi Suzuki, Randy H. Katz

September 2003 WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available: [pdf\(248.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

A serious impediment for seamless roaming between independent wireless LANs (WLANs) is how best to confederate the various WLAN service providers, each having different trust relationships with individuals and each supporting their own authentication ...

Keywords: authentication, hotspot, link layer security, policy control, roaming, single sign-on, wireless LAN

4 Enhancement of a WLAN-based internet service in Korea



Youngkyu Choi, Jeongyeup Paek, Sunghyun Choi, Go Woon Lee, Jae Hwan Lee, Hanwook Jung

September 2003 WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available: [pdf\(774.23 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational since early 2002. As the numbers of subscribers and deployed access points (APs) ...

Keyw ords: IEEE 802.11, LAN, hotspot service, wireless internet service provider (WISP)

5 Global growth of open access networks: from warchalking and connection sharing to sustainable business



Roberto Battiti, Renato Lo Cigno, Fredrik Orava, Bjorn Pehrson

September 2003 WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available: [pdf\(226.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

This paper discusses the evolution of W-LAN starting from the mere extension of LAN services indoors, through the widespread diffusion of outdoors coverage with free and often un-authorized access, to the business models supporting their evolution to ...

Keyw ords: 802.11, WiFi, mobility, open access networks

6 A generic business model for WLAN hotspots: a roaming business case in The Netherlands



Jack Verhoosel, Roel Stap, Alfons Salden

September 2003 WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available: [pdf\(345.42 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We present a generic business model for WLAN hotspots that comprises a role, resource and revenue model of a value network. We distinguish roles like customer, hotspot provider, hotspot owner, device owner, device provider, location owner, portal providers ...


Keyw ords: business case, business model, different network technologies, hotspot, roaming

7 Hiperlan/2 public access interworking with 3G cellular systems

Stephen McCann, Helena Flygare

January Wireless Networks, Volume 10 Issue 1
2004

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(196.64 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

This paper discusses some of the recent work within the Broadband Radio Access Network (BRAN) project of ETSI (European Telecommunications Standards Institute), regarding the issue of establishing an interworking solution between Hiperlan/2 and 3G cellular ...

Keyw ords: 3G, BRAN, ETSI, Hiperlan/2, WIG, interworking, public access

8 Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots



Giuseppe Bianchi, Sunghyun Choi, Bill Schilit
October 2004

proceeding

Publisher: ACM

Additional Information: [full citation](#), [abstract](#)

Welcome to the Second ACM International Workshop on Wireless Mobile Applications and Services on WLAN Hotspots (WMASH'2004). We take great pleasure in presenting you with a workshop on a very hot, timely, and challenging topic. In a very rapid evolution ...

9 Fairness and load balancing in wireless LANs using association control



Yigal Bejerano, Seung-Jae Han, Li (Erran) Li

September 2004 MobiCom '04: Proceedings of the 10th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: [pdf\(377.95 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Recent studies on operational wireless LANs (WLANs) have shown that user load is often unevenly distributed among wireless access points (APs). This unbalanced load results in unfair bandwidth allocation among users. We observe that the unbalanced load ...

Keyw ords: IEEE 802.11, approximation algorithms, load balancing, max-min fairness, wireless local area networks (WLAN)

10 Fast authentication methods for handovers between IEEE 802.11 wireless LANs



M. S. Bargh, R. J. Hulsebosch, E. H. Eertink, A. Prasad, H. Wang, P. Schoo

October 2004 WMASH '04: Proceedings of the 2nd ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available: [pdf\(257.82 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Improving authentication delay is a key issue for achieving seamless handovers across networks and domains. This paper presents an overview of fast authentication methods when roaming within or across IEEE 802.11 Wireless-LANs. Besides this overview, ...

Keyw ords: WLAN, authentication, handover, inter/intra-domain, seamless

11 The changing usage of a mature campus-wide wireless network



Tristan Henderson, David Kotz, Ilya Abyzov

September 2004 MobiCom '04: Proceedings of the 10th annual international conference on Mobile computing and networking

Publisher: ACM


Full text available: [pdf\(625.48 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Wireless Local Area Networks (WLANs) are now commonplace on many academic and corporate campuses. As "Wi-Fi" technology becomes ubiquitous, it is increasingly important to understand trends in the usage of these networks. This paper analyzes an extensive ...

Keyw ords: 802.11, VoIP, WLAN, Wi-Fi, telephony, voice, wireless network

12 Analysis of the 802.11i 4-way handshake

 Changhua He, John C. Mitchell
October WiSe '04: Proceedings of the 3rd ACM workshop on Wireless security
2004


Publisher: ACM

Full text available:  [pdf\(328.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


802.11i is an IEEE standard designed to provide enhanced MAC security in wireless networks. The authentication process involves three entities: the supplicant (wireless device), the authenticator (access point), and the authentication server (e.g., a ...

Keyw ords: 4-way handshake, 802.11i, WLAN, authentication, denial-of-service, key management

13 End-to-end throughput and delay assurances in multihop wireless hotspots

 Kuang-Ching Wang, Parameswaran Ramanathan
September WMASH '03: Proceedings of the 1st ACM international workshop on
2003 Wireless mobile applications and services on WLAN hotspots


Publisher: ACM

Full text available:  [pdf\(283.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Next generation Wireless Local Area Networks (WLAN's) are likely to require multihop wireless connections between mobile nodes and Internet gateways to achieve high data rates from larger distances. The paper addresses the challenges in concurrently ...

Keyw ords: IEEE 802.11, medium access, proportional differentiation, quality of service, scheduling

14 A peer-to-peer approach to wireless LAN roaming

 Elias C. Efstathiou, George C. Polyzos
September WMASH '03: Proceedings of the 1st ACM international workshop on
2003 Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available:  [pdf\(279.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We make the case for a Global Confederation of Peer-to-Peer (P2P) Wireless Local Area Networks. A P2P Wireless Network Confederation (P2PWNC) is a community of administrative domains that offer wireless Internet access to each other's registered users. ...

Keyw ords: P2P, WISP, WLAN, Wi-Fi, incentives, mixes, privacy, roaming

15 Enhancing location privacy in wireless LAN through disposable interface



identifiers: a quantitative analysis

Marco Gruteser, Dirk Grunwald

September 2003 WMASH '03: Proceedings of the 1st ACM international workshop on
Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available: [pdf\(410.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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The recent proliferation of wireless local area networks (WLAN) has introduced new *location* privacy risks. An adversary controlling several access points could triangulate a client's position. In addition, interface identifiers uniquely identify ...

Keyw ords: interface identifiers, location privacy, wireless LAN

16 Interference evaluation of Bluetooth and IEEE 802.11b systems

N. Golmie, R. E. Van Dyck, A. Soltanian, A. Tonnerre, O. Rébala

May 2003 Wireless Networks, Volume 9 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(203.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

The emergence of several radio technologies, such as Bluetooth and IEEE 802.11, operating in the 2.4 GHz unlicensed ISM frequency band, may lead to signal interference and result in significant performance degradation when devices are colocated in the ...

Keyw ords: Bluetooth, IEEE 802.11b, WPANs, interference

17 Analysis of a campus-wide wireless network



David Kotz, Kobby Essien

September 2002 MobiCom '02: Proceedings of the 8th annual international conference on
Mobile computing and networking

Publisher: ACM

Full text available: [pdf\(211.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Understanding usage patterns in wireless local-area networks (WLANs) is critical for those who develop, deploy, and manage WLAN technology, as well as those who develop systems and application software for wireless networks. This paper presents results ...

Keyw ords: 802.11, LAN, network analysis, usage characterization

18 Virtual operator based AAA in wireless LAN hot spots with ad-hoc networking



support

Junbiao Zhang, Jun Li, Stephen Weinstein, Nan Tu

June ACM SIGMOBILE Mobile Computing and Communications Review,
2002 Volume 6 Issue 3

Publisher: ACM

Full text available:  [pdf\(180.11 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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Sound and effective authentication, authorization and accounting (AAA) schemes for convenient and secure mobile wireless accesses are of great importance given the increased popularity and business opportunities in public wireless LAN hot spots. One ...


19 A wireless traffic probe for radio resource management and QoS provisioning in IEEE 802.11 WLANs



Mark Davis

October MSWiM '04: Proceedings of the 7th ACM international symposium on
2004 Modeling, analysis and simulation of wireless and mobile systems

Publisher: ACM

Full text available:  [pdf\(451.50 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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The emergence of real-time services such as voice over IP (VoIP) and video streaming, imposes stringent requirements on the performance of a network if quality of service (QoS) targets are to be achieved. In the case of wireless networks, some form of ...

Keywords: Wi-Fi, radio resource management, traffic probe

20 Wireless hotspots: current challenges and future directions



Anand Balachandran, Geoffrey M. Voelker, Paramvir Bahl

September WMASH '03: Proceedings of the 1st ACM international workshop on
2003 Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available:  [pdf\(117.89 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
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In recent years, wireless Internet service providers (WISPs) have established Wi-Fi hotspots in increasing numbers at public venues, providing local coverage to traveling users and empowering them with the ability to access email, Web, and other Internet ...

Results 1 - 20 of 23 Result page: 1 2 next

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